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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/029,841	12/31/2001	Masao Gunji	108287-00005	5346

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EXAMINER

LE, NHAN T

ART UNIT	PAPER NUMBER
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2685

DATE MAILED: 11/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/029,841	GUNJI ET AL.	
	Examiner	Art Unit	
	Nhan T. Le	2685	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 01 August 2005.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1, 3-11 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1 is/are allowed.
- 6) ☒ Claim(s) 3-11 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 3-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kashiwagi et al (US 2002/0098870) in view of Tonomura et al (US 5,809,119).

As to claims 3, 4, Kashiwagi teaches a multi-channel management method that is applied to a multi-channel input system for making cordless connection between a plurality of terminals and a plurality of input apparatuses corresponding to these terminals based on a multi-channel system, the multi-channel management method comprising: managing a setting status of each channel in the multi-channel input system and notifying the setting status to a particular one of the terminals according to a request from the particular terminal the input system for making cordless connection between plurality of the terminals and plurality of input apparatuses. Kashiwagi fails to teach each terminal connected to and independently communicating with a high-order terminal via a network and by providing a channel-setting table in the high-order terminal. Tonomura teaches each terminal connected to and independently communicating with a high-order terminal via a network and by providing a channel-setting table in the high-order terminal (see fig. 1, numbers 101, 102, 109, col. 3, lines 53-67, col. 4, lines 1-32). Therefore, it would have been obvious to one of ordinary skill

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in the art at the time the invention was made to provide the teaching of Tonomura into the system of Kashiwagi in order to automatically connect the terminals based on the time table setting(as suggested by Tonomura col. 2, lines 30-36).

As to claims 5, 10, 11, Kashiwagi teaches a multi-channel terminal by utilizing a set channel that has been set in advance out of a plurality of channels based on a multi-channel system, the multi-channel terminal comprising: a checking unit (see page 3, paragraph 0041) which checks presence or absence of a data reception in a channel other than a set channel during a period while the set channel has no data reception; and an interference channel candidate extraction unit (see see page 4, paragraph 0048-0051) which selects a channel as a candidate interference channel having a possibility of the occurrence of interference at the time of updating the set channel, when the checking unit has detected a data reception. Kashiwagi fails to teach a multi-channel terminal connected to and communicating with a high-order terminal via a network, which manages a setting status of each channel in a multi-channel input system. Tonomura teaches a multi-channel terminal connected to and communicating with a high-order terminal via a network, which manages a setting status of each channel in a multi-channel input system (see fig. 1, numbers 101, 102, 109, col. 3, lines 53-67, col. 4, lines 1-32). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Tonomura into the system of Kashiwagi in order to automatically connect the terminals based on the time table setting(as suggested by Tonomura col. 2, lines 30-36).

As to claims 6, 7, the combination of Kashiwagi and Tonomura teaches a notification unit which notifies the candidate interference channel to a user and notifies a setting status of each channel of the multi-channel system, in addition to the interference channel. (see Kashiwagi page 3, paragraphs 0043, 0046).

As to claim 8, the combination of Kashiwagi and Tonomura teaches an interruption processing unit which interrupts a processing to execute a processing of received data, when a set channel has received data while the checking unit is checking (see Kashiwagi page 3, paragraph 0042).

As to claim 9, the combination of Kashiwagi and Tonomura teaches wherein the checking unit destroys data that has been received during the checking (see Kashiwagi page 3, paragraph 0042).

### ***Response to Arguments***

Applicant's arguments with respect to claims 1-11 have been considered but are moot in view of the new ground(s) of rejection.

### ***Allowable Subject Matter***

Claim 1 is allowed over the prior art.

Tonomura et al (US 5,809,119) teaches communication method of supplying information in the intelligent network and apparatus in which comprises a plurality of terminals and each terminal communicates via the network independently, a management unit (see fig. 1, number 102, col. 3, lines 53-67, col. 4, lines 1-32) which manages a setting status of each channel in the multi-channel input system by providing a channel setting table showing the relationship between the plurality of terminals and

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plurality of channels that can be utilized in the multi-channel input system; Kashiwagi et al (US 2002/0098870) teaches base station for wireless communication and method for setting up frequency band in the base station , which has a multi-channel management apparatus, which is connected to a plurality of terminals via a network and independently communicates with each of the terminals is applied to a multi-channel input system for making cordless connection between a terminal and a input apparatus corresponding to the terminal based on a multi-channel system, the multi-channel management apparatus comprising: a management unit (see fig. 3, number 133, page 3, paragraphs 0036-0037) which manages a setting status of each channel in the multi-channel input system by providing a channel setting table showing the relationship between the plurality of terminals and plurality of channels that can be utilized in the multi-channel input system; and a notification unit (see page 3, paragraphs 0043, 0046) which notifies the setting status to a particular terminal according to a request from the particular terminal. The prior art either combined or alone fails to teach wherein the multi-channel management apparatus comprises an interference channel candidate extraction unit, which selects a channel as a candidate interference channel having a possibility of the occurrence of interference at the time of updating a set channel, and notifies the interference channel to terminal, when this channel other than the set channel has a data reception during a period while the set channel set at the terminal has no data reception.

### ***Conclusion***

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Basawapapatna et al (US 2002/0031224) teaches secure multimedia communication system.

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nhan T Le whose telephone number is 571-272-7892. The examiner can normally be reached on 08:00-05:00 (Mon-Fri).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on 571-272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Nhan Le



10-27-2005

**NGUYENT.VO**  
**PRIMARY EXAMINER**